To adjust the operation constants, press the hold the MODE and AUGER DELAY buttons simultaneously for 3 seconds. The display will show "C-1". Use the HEAT RANGE UP or HEAT RANGE DOWN buttons to change the constant number (see the list of vales below). When the desired constant is displayed, press the ON button to toggle between viewing and editing the value. While editing a parameter, use the AUX again to return to the constant number list. Press the OFF button to exit the operational constants mode.

C1- Reset to defaults (hold Mode and Auger Delay buttons for 3 seconds to reset all to defaults).

C2- Fuel Lbs. per Hour HR 1 (0-5.0) – This is the fuel rate in pounds per hour for a heat range setting of 1. The default is 1.75 lbs.

C3- Fuel lbs. per Hour HR 9 (0-5.0) – This is the fuel rate in pounds per hour for a heat range setting of 5. The default is 4.5lbs. The fuel rates used between setting 1 and 5 are linearly interpolated between these two settings.

C4- Draft Fan Level HR 1 (0-500) – This is the draft fan output level for a draft fan setting of 9. The default is 150

C5- Draft Fan Level HR 9 (0-500) – This is the draft fan output level for a draft fan setting of 9. The default is 350. See next parameter for disbursement.

C6- Monitor Hopper Switch (0-1) – If this parameter is set to 0 (default), the hopper switch input is ignored. If it is set to 1, the hopper input is monitored, and if the hopper is opened, the auger will stop. The delay LED will flash when the hopper is opened.

C7- Ramp Seconds for increasing level (0-300) – When the heat range setting is adjusted, control will ramp from the current setting to the target setting to avoid abrupt changes in the outputs that could cause problems with the flame quality. The ramp seconds value sets the amount of time to spend on each heat range setting (1-9 pseudo ranges not 1-3 user ranges) as the current setting is ramping toward the target. If the current setting is ramping down toward a lower target, the ramp value is half this number. The default value is 90 seconds.

C8- Startup Minutes for detecting Warm Stove – (10-60) this is the amount of time the control will wait for the stove to reach the warm temperature (110 Degrees F) after the stove has been started before shutting down and reporting an Error condition Err3. The default is 30minutes.

C9- Over temp Set point – (0-500) this is the temperature the flue gas can reach before an over temp condition exists. If the measured temperature is higher than this set point, the control will stop auguring fuel until the temperature returns to a safe operating point. The default is 445 degrees.

C10- Cutback Set point – This is the temperature that the flue gas can reach before a cutback condition exists. If the measured temperature is higher than this set point, the control ramps down the heat range according to the auger ramp seconds value. The default is 430 degrees.

C11- Room fan on set point – (0-300) this is the temperature that the measured flue gas must reach before the room fan turns on. This variable also serves to indicate to the control that the stove is warm. If the measured temperature is higher than this set point, the stove is considered warm and will not create an Er3. Whether or not the stove is warm also determines if the unit will recover from a power failure. If the stove is warm when the power is lost and cold when it returns, it will shut down with an Er4 error. The default is 130 degrees.

C12- Cold stove set point – (0-300) this variable is used to determine when the stove is cold and ready to be shut down. If during the shutdown sequence the measured temperature is less than this value, the stove will stop running the fans to cool it off. The default is 110 degrees.

C13- Room fan level HR 9 (0-500) – this is the output level applied to the room fan for a setting o 1. The default values is 300/500.

C14- Room fan level HR 9 (0-500) – This is the output level applied to the room fan for a setting of 9. The default value is 500/500. The room fan output levels used between settings 1 and 9 are linearly interpolated between these two settings.

C15- Auger load time (0-30) – This variable is used to control the length of time that the fuel is augured into the burn pot during startup. The default is 6 minutes.

C16- Starter on time (0-30) – This variable is used to control the length of time that the igniter is turned on during startup. The default is 8 minutes.

C17- Ignore fuse errors (0-1) – This variable can be used to ignore errors detected by open fuses. By default, it is o (do not ignore the vacuum switch), but can be set to 1 for diagnostic of emergency operation purpose.

C18- Ignore vacuum switch (0-1) – This variable can be used to ignore the vacuum switch. By default it 0 (do not ignore the vacuum switch), but can be set to 1 for diagnostic or emergency operation purposes.

C19- Bump rate in pounds per hour (0-0.5) – The bump rate defines the rate of fuel to be delivered when the unit is over temperature or in shutdown to prevent burn back, Since this stove design isn't conductive to burn back, the default setting is 0lbs. per hour, but can be adjusted to a maximum of 0.5lbs per hour.

C20- Purge time (0-120) – The purge time defines how many seconds to run the auger to purge it on power down or shutdown as the stove moves from a warm state to a cool state. It is intended to push and partially heated pellets still in the auger tube out. By default, the auger will run for 30 seconds, but can be set between 0 and 120.

C21- Enable serial communication (0-10 – By default, serial communication is not enabled (0). Set this variable to 1 to enable communication.